Massachusetts Department of Environmental Protection - Drinking Water Program **PFAS**

City / Town: NANTUCKET

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

Page 1 of 24

4197000

PWS Name:	WANNACOMET WATER COMPANY			PV	VS Class:	COM	☐ NTNC					
MassDEP Location (LOC) ID#	MassDEP Location Name Sample			mple Informati	on	Date Colle	ected	Collected	d By			
10008	STATE FOR	EST 03	G			☐ (M)ulti ☑ (S)ing	ple ☐ (R le ☐ (F)aw iinished	06/15/	21	RW	ı
Routine or			ubmitted or				If Resubn	itted Report	, list below	:		
Special Sample	Co	nfirmatio	on Report		(1) F	Reason for R	esubmission		(2) Collec	ction Date of	Original S	Sample
⊠RS □SS	Original	Resubm	itted Cor	firmation	Resample	Reanalys	sis Report (Correction				
SAMPLE COMMEN	NTS - Such as, if a	Manifold	d/Multiple sam	ple, list the s	source(s) that we	re on-line dur	ring sample col	lection or if th	is is a field	reagent blank		
II. ANALYTICA	L LABORAT	ORY IN	IFORMATI	ON:								
Primary Lab Cer	t. #: M-M <i>A</i>	086	Primary I	Lab Name	: Alpha Ar	nalytical La	ıbs		Sub	contracted	? (Y/N)	Υ
Analysis Lab Ce	ert. #: M-M <i>A</i>	030	Analysis	Lab Name	e: Alpha Ar	nalytical La	ıbs					
-												
If Analysis Lab i EPA, list certific			sDEP or U.S	5.								
Lab Method	Date Extract	ed	Date Analyzed	Dilution Factor		Lab Sample IDs#)s#			
F27.4	00/47/04		00/40/04	4	Primary Lab	:	L2132674-01					
537.1	06/17/21	,	06/18/21	1	Subcontract	ed Lab:	L2132674-01					
CAS#		REG	SULATED PF	AS CONTAI	MINANTS		Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MR ng/	
1763-23-1	Perfluoroocta	ne Sulfo	nic Acid (PFC	DS)			ND			0.620	1.8	36
335-67-1	Perfluoroocta	noic Aci	d (PFOA)				ND		-	0.620	1.8	36
355-46-4	Perfluorohex	ane Sulfo	onic Acid (PF	HxS)			ND		-	0.620	1.8	36
375-95-1	Perfluoronon	anoic Aci	id (PFNA)				ND		-	0.620	1.8	36
375-85-9	Perfluorohep	atanoic A	Acid (PFHpA)				ND		-	0.620	1.8	36
335-76-2	Perfluorodec	anoic aci	d (PFDA)				ND		-	0.620	1.8	36
Res	of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include sults at or above the MRL; do not include estimated Results as cribed by a Result Qualifier in the next column)							20				
3.00	UNREGULATED PFAS CONTAMINANTS											
375-73-5	Perfluorobuta	ne sulfo	nic acid (PFB	(S)			ND			0.620	1.8	36
307-55-1	Perfluorodod	ecanoic a	acid (PFDoA)				ND			0.620	1.8	36
307-24-4	Perfluorohex	anoic aci	d (PFHxA)				ND			0.620	1.8	36
376-06-7	Perfluorotetra	decanoi	c acid (PFTA))			ND			0.620	1.8	36
72629-94-8	Perfluorotride	canoic a	cid (PFTrDA))			ND			0.620	1.8	36

ND

ND

ND

ND

ND

ND

0.620

0.620

0.620

0.620

0.620

0.620

0.620

1.86

1.86

1.86

1.86

1.86

1.86

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Perfluoroundecanoic acid (PFUnA)

N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)

N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)

Rev. 9/9/2020

2058-94-8

2991-50-6

2355-31-9

763051-92-9

756426-58-1

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS	ID#:

4197000

Lab Sample ID#:

Primary Lab: L2132674-01

Subcontracted Lab: L2132674-01

UNREGULATED PFAS CONTAMINANTS	Result¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
			-		
	UNREGULATED PFAS CONTAMINANTS			ONREGULATED PFAS CONTAMINANTS ng/L Qualifier ng/L	ONREGULATED PFAS CONTAMINANTS ng/L Qualifier ng/L ng/L

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	95	
¹³ C ₂ -PFDA	107	
d ₅ -NEtFOSAA	97	
¹³ C ₃ -HFPO-DA	106	

	Note: ¹³ C ₃ -HFPO-DA is not req	uired for EPA M	1ethod 537 v1.1			
In addition to the S	UR above you must attach the results of the	he ongoing QC	results as specified by the method fo	r the sample's extraction	on batch.	
□ Laboratory ana	alytical report with QC attached (check	one item belov	w).			
	ociated QC criteria reported within control s (SUR), Laboratory Fortified Blank (LFB),				RB), Surrogate	
☐ All ass	ociated sample and/or QC batch criteria n	ot met. See Lat	o Analysis Comments below and narr	ative in attached report	i.	
Lab Analysis Com	nments: (include sample/method parame	ters outside of	or affecting QC controls/limits and res	ult qualifiers)		
Result Qualifier	Qualifier Description					
J	J The target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit.					
Other Analysis Comments:						
* MCL or proposed M	ICL					
	es of law that I am the person authorized to fill of		mary Lab Director Signature:	Joseph W.	ackens	
	formation contained herein is true, accurate a extent of my knowledge.	nd	Date:	7/2/202		
month in whic	nese results electronically, mail <u>TWO</u> copie th you received this report <u>or</u> no later than tts COVID-19 state of emergency, in addit	10 days after th	ne end of the reporting period, whiche	ever is sooner. Note tha	at during the	
MassDEP REVIEW	V STATUS (Initial & Date)					
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered	

Massachusetts Department of Environmental Protection - Drinking Water Program **PFAS**

City / Town: NANTUCKET

ND

ND

ND

ND

ND

ND

ND

0.596

0.596

0.596

0.596

0.596

0.596

0.596

0.596

1.78

1.78

1.78

1.78

1.78

1.78

1.78

1.78

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

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4197000

PWS Name:	WANNACOMET WATER COMPANY			PV	VS Class:	COM	□ NTN	1C 🗆	TNC 🗌			
MassDEP Location (LOC) ID#		М	assDEP Location	n Name		San	nple Informati	on	Date Colle	ected	Co	ollected By
10009	N.PAS	STURE 040				☐ (M)ulti ☑ (S)ingl)aw)inished	06/15/2	21		RW
Routine or			Resubmitted or			-	If Resubn	itted Repor	t, list below	:		
Special Sample			nation Report				esubmission		(2) Collec	ction Date	of Or	iginal Sample
⊠ RS □ SS	<u> </u>		ubmitted		Resample							
SAMPLE COMMI	ENTS - Su	ich as, if a Mar	nifold/Multiple sam	ple, list the s	source(s) that we	re on-line duri	ing sample col	lection or if the	nis is a field i	reagent bla	ank	
II. ANALYTIC	AL LAE	BORATORY	/ INFORMATI	ON:								
Primary Lab C	ert. #:	M-MA086	Primary	Lab Name	: Alpha Ar	nalytical La	bs		Sub	contract	ed? (Y/N) Y
Analysis Lab C	ert.#:	M-MA030	Analysis	Lab Name	e: Alpha Ar	nalytical La	bs					
lf Analysia Lak	. ia nat a	outified by N	Accoped or III	•								
If Analysis Lab EPA, list certif			Massber or U.	э.								
Lab Method	Date	Extracted	Date Analyzed	Dilution Factor			Li	ab Sample II	Ds#			
507.4		0/47/04	00/40/04	4	Primary Lab	:	L2132674-02					
537.1	U	06/17/21 06/18/21 1 Subcontra			Subcontract	ed Lab:	L2132674-02					
CAS#		ı	REGULATED PF	AS CONTAI	MINANTS		Result ¹ ng/L	Result ² Qualifier	MCL*	MDL ng/L		MRL ng/L
1763-23-	4 Dord		ulfania Asid (DE)	26)			ND			0.596	2	1.78
335-67-		uorooctanoic	ulfonic Acid (PF	J3)			ND ND		-	0.596		1.78
355-46-	_		Sulfonic Acid (PF	HvS)			ND		-	0.596	-	1.78
375-95-			Acid (PFNA)				ND		_	0.596		1.78
375-85-			pic Acid (PFHpA)				ND		-	0.596	-	1.78
335-76-		uorodecanoid					ND		-	0.596		1.78
			* *	HpA and F	FDA; only inclu	ıde	112			0.000		10
	S6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as							20				
de	Scribed L	scribed by a Result Qualifier in the next column) UNREGULATED PFAS CONTAMINANTS					<u> </u>					
375-73-	5 Perfl		ulfonic acid (PFE				0.856	J		0.596	6	1.78
307-55-			oic acid (PFDoA)				ND			0.596	-	1.78
307-24-			acid (PFHxA)				ND			0.596		1.78
376-06-	_		anoic acid (PFTA)			ND			0.596		1.78

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnA)

N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)

N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)

Rev. 9/9/2020

72629-94-8

2058-94-8

2991-50-6

2355-31-9

763051-92-9

756426-58-1

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS	ID#-

4197000

Lab Sample ID#:

Primary Lab: L2132674-02
Subcontracted Lab: L2132674-02

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	93	
¹³ C ₂ -PFDA	98	
d ₅ -NEtFOSAA	92	
¹³ C ₃ -HFPO-DA	101	

	Note: 13C3-HFPO-DA is not requ	uired for EPA M	1ethod 537 v1.1		
In addition to the S	UR above you must attach the results of th	ne ongoing QC	results as specified by the method for	r the sample's extraction	on batch.
	alytical report with QC attached (check o			·	
	cociated QC criteria reported within control is (SUR), Laboratory Fortified Blank (LFB),				RB), Surrogate
☐ All ass	ociated sample and/or QC batch criteria no	ot met. See Lal	Analysis Comments below and narra	ative in attached report	
Lab Analysis Com	nments: (include sample/method paramet	ters outside of	or affecting QC controls/limits and res	ult qualifiers)	
Result Qualifier	Qualifier Description				
J	The target analyte concentration is below the	he quantitation	limit (RL), but above the Method Detection	on Limit.	
Other Analysis Comments:					
* MCL or proposed M	1CL				
I certify under penaltie	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W	cukons
	formation contained herein is true, accurate ar extent of my knowledge.	nd	Date:	7/2/202	
month in which Massachuset	nese results electronically, mail <u>TWO</u> copie th you received this report <u>or</u> no later than tts COVID-19 state of emergency, in additi	10 days after th	ne end of the reporting period, whiche	ver is sooner. Note tha	t during the
MassDEP REVIEW	V STATUS (Initial & Date)	Daview			
Accepted	Disapproved	Review Comments			☐ WQTS Data Entered

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

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PWS ID #:	4197000			Cit	y / Town:	NANTUC	KET				
PWS Name:	WANNACC	MET WATER	COMPAN	١Y		PV	VS Class:	COM		NC 🗌 TN	С
MassDEP Location (LOC) ID#		MassDEP Locatio	n Name		Sam	nple Informat	ion	Date Col	lected	Collecte	ed By
10002	WELL#2 02G				☐ (M)ultip ☑ (S)ingle)aw)inished	06/15	/21	RW	٧
Routine or	Original	, Resubmitted or			-	If Resubn	nitted Repor	t, list belov	v:		
pecial Sample	Confi	rmation Report		(1) I	Reason for Re	esubmission		(2) Colle	ection Date	e of Original	Sam
IRS □SS	Original 🗌 Re	submitted Co	nfirmation	Resample	Reanalysi	s Report	Correction				
AMPLE COMMEN	ITS - Such as, if a Ma	anifold/Multiple san	nple, list the	source(s) that we	re on-line duri	ng sample co	llection or if t	his is a field	reagent bl	lank	
. ANALYTICA	L LABORATOR	Y INFORMAT	ION:								
rimary Lab Cer	t. #: M-MA08	6 Primary	Lab Name	e: Alpha Ai	nalytical Lal	bs.		Sub	ocontract	ted? (Y/N)	Y
,				7	,					(1711)	
nalysis Lab Ce	ert. #: M-MA03	0 Analysis	Lab Name	e: Alpha Ai	nalytical Lal	bs					
	s not certified by ation authority:	MassDEP or U.	S.								
Lab Method	Date Extracted	Date Analyzed	Dilution Factor			L	ab Sample I	Ds#			
537.1	00/47/04	00/40/04	4	Primary Lab):	L2132674-03					
557.1	06/17/21	06/18/21	1	Subcontract	ted Lab:	L2132674-03					
CAS#		REGULATED PF	AS CONTA	MINANTS		Result ¹ ng/L	Result ² Qualifier	MCL*	MDL ng/L		RL g/L
1763-23-1	Perfluorooctane	Sulfonic Acid (PF	OS)			ND			0.59	8 1.	.79
335-67-1	Perfluorooctanoi	ic Acid (PFOA)	•			ND			0.59	8 1.	.79
355-46-4	Perfluorohexane	Sulfonic Acid (PI	FHxS)			ND			0.59	8 1.	.79
375-95-1	Perfluorononano	oic Acid (PFNA)				ND	1		0.59	8 1.	.79
375-85-9		noic Acid (PFHpA)			ND			0.59		.79
335-76-2	Perfluorodecanoic acid (PFDA)			ND			0.59	8 1.	.79		
Res	ults at or above the	f PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include ults at or above the MRL; do not include estimated Results as ribed by a Result Qualifier in the next column)						20			
		UNREGULATED F		•			•		•		
375-73-5	Perfluorobutane	sulfonic acid (PF	BS)			ND			0.59	8 1.	.79
307-55-1	Perfluorododeca	noic acid (PFDoA)			ND			0.50	R 1	70

ND

ND

ND

ND

ND

ND

ND

ND

ND

0.598

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0.598

0.598

0.598

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0.598

0.598

0.598

0.598

1.79

1.79

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1.79

1.79

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1.79

1.79

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Perfluorohexanoic acid (PFHxA)

Perfluorotetradecanoic acid (PFTA)

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnA)

N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)

N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)

Rev. 9/9/2020

307-24-4

376-06-7

72629-94-8

2058-94-8

2355-31-9

763051-92-9

756426-58-1

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS	ID#:

4197000

Lab Sample ID#:

Primary Lab: L2132674-03
Subcontracted Lab: L2132674-03

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	100	
¹³ C ₂ -PFDA	103	
d ₅ -NEtFOSAA	91	
¹³ C ₃ -HFPO-DA	108	

	Note: ¹³ C ₃ -HFPO-DA is not requ	uired for EPA M	lethod 537 v1.1						
In addition to the S	UR above you must attach the results of the	ne ongoing QC	results as specified by the method fo	r the sample's extraction	on batch.				
□ Laboratory ana	alytical report with QC attached (check	one item belov	v).						
	ociated QC criteria reported within control (SUR), Laboratory Fortified Blank (LFB),				RB), Surrogate				
☐ All ass	ociated sample and/or QC batch criteria no	ot met. See Lab	Analysis Comments below and narr	ative in attached report	t.				
Lab Analysis Com	nments: (include sample/method paramet	ters outside of	or affecting QC controls/limits and res	sult qualifiers)					
Result Qualifier	Qualifier Description								
J	The target analyte concentration is below t	he quantitation I	imit (RL), but above the Method Detecti	on Limit.					
					_				
Other Analysis Comments:									
* MCL or proposed M	ICL								
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W	cukons				
	iormation contained herein is true, accurate an extent of my knowledge.	na	Date:	7/2/202	21				
month in whic	nese results electronically, mail <u>TWO</u> copie h you received this report <u>or</u> no later than tts COVID-19 state of emergency, in additi	10 days after th	ne end of the reporting period, whiche	ever is sooner. Note tha	nt during the				
MassDEP REVIEW	/ STATUS (Initial & Date)	5 .			Пиото				
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered				

Per- and Polyfluoroalkyl Substances (PFAS) Report

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I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form												
PWS ID #:	4197000			Cit	y / Town:	NANTU	CKET					
PWS Name:	WANNACO	WANNACOMET WATER COMPANY				P'	NS Class:	COM		TNC 🗆		
MassDEP Location (LOC) ID#	ı	MassDEP Location	n Name		San	nple Information Date Collec			ected	ed Collected By		
10010	WELLS 02G, 05	6G, 06G	G				R)aw F)inished	06/15/2	21	RW		
Routine or Special Sample		, Resubmitted or mation Report		(1) F	Reason for R		nitted Repor			of Original Samp	ole	
⊠RS □SS	☑ Original ☐ Res	submitted Cor	nfirmation	Resample	Reanalys	is Report	Correction					
SAMPLE COMME	NTS - Such as, if a Ma	nifold/Multiple sam	ple, list the s	source(s) that we	re on-line duri	ing sample co	llection or if t	nis is a field	reagent blan	ık		
II. ANALYTICA	L LABORATOR	Y INFORMATI	ON:									
Primary Lab Ce	rt. #: M-MA086	6 Primary	Lab Name	: Alpha Ar	nalytical La	bs		Sub	contracted	d? (Y/N) Y	_	
Analysis Lab Ce	ert. #: M-MA030	Analysis	Lab Name	e: Alpha Ar	nalytical La	bs						
If Analysis Lab i EPA, list certific	is not certified by ation authority:	MassDEP or U.S	S.									
Lab Method	Date Extracted	Date Analyzed	Dilution Factor			ı	.ab Sample I	Ds#				
537.1	06/47/24	06/49/24	4	Primary Lab	:		L	213267	4-04			
55 <i>1</i> .1	06/17/21	06/18/21	1	Subcontract	ed Lab:		L	213267	4-04			
CAS#		REGULATED PF	AS CONTAI	MINANTS		Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L		
1763-23-1	Perfluorooctane	Sulfonic Acid (PF	OS)			ND			0.599	1.79	1	
335-67-1	Perfluorooctanoi	c Acid (PFOA)				ND			0.599	1.79	1	
355-46-4	Perfluorohexane	Sulfonic Acid (PF	HxS)			ND			0.599	1.79		
375-95-1	Perfluorononano	ic Acid (PFNA)				ND			0.599	1.79		
375-85-9	Perfluorohepatan	noic Acid (PFHpA))			0.610	J		0.599	1.79		
335-76-2						ND			0.599	1.79		
DEASS (cum	of DEOS DEON DE	EHAS DENIA DE	Un A and D	PEDA: only inclu	٠d٥							

307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.599	1.79
307-24-4	Perfluorohexanoic acid (PFHxA)	0.646	J	0.599	1.79
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		0.599	1.79
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0.599	1.79
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.599	1.79
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.599	1.79
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.599	1.79
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		0.599	1.79
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	ND		0.599	1.79
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.599	1.79
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND		0.599	1.79

20

0.599

1.79

ND

Results at or above the MRL; do not include estimated Results as

UNREGULATED PFAS CONTAMINANTS

described by a Result Qualifier in the next column)

Perfluorobutane sulfonic acid (PFBS)

Rev. 9/9/2020

375-73-5

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS	ID#·

4197000

Lab Sample ID#:

L2132674-04 Primary Lab: L2132674-04 Subcontracted Lab:

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	101	
¹³ C ₂ -PFDA	112	
d ₅ -NEtFOSAA	94	
¹³ C ₃ -HFPO-DA	111	

	Note: ¹³ C ₃ -HFPO-DA is not requ	uired for EPA M	1ethod 537 v1.1							
In addition to the S	UR above you must attach the results of the	ne ongoing QC	results as specified by the method for	or the sample's extraction	on batch.					
□ Laboratory ana	☑ Laboratory analytical report with QC attached (check one item below).									
	ociated QC criteria reported within control s (SUR), Laboratory Fortified Blank (LFB),				RB), Surrogate					
☐ All asso	ociated sample and/or QC batch criteria no	ot met. See Lab	Analysis Comments below and narr	ative in attached report	i.					
Lab Analysis Com	nments: (include sample/method paramet	ters outside of	or affecting QC controls/limits and res	sult qualifiers)						
Result Qualifier	Qualifier Description									
J	The target analyte concentration is below t	he quantitation I	limit (RL), but above the Method Detect	ion Limit.						
Other Analysis Comments:										
* MCL or proposed M	1CL									
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W	ackons					
	formation contained herein is true, accurate ar extent of my knowledge.	าส	Date:	7/2/202						
month in which	hese results electronically, mail <u>TWO</u> copie ch you received this report <u>or</u> no later than tts COVID-19 state of emergency, in additi	10 days after th	ne end of the reporting period, which	ever is sooner. Note tha	at during the					
MassDEP REVIEW	V STATUS (Initial & Date)									
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered					

Massachusetts Department of Environmental Protection - Drinking Water Program **PFAS**

City / Town: NANTUCKET

ND

ND

ND

ND

ND

ND

0.611

0.611

0.611

0.611

0.611

0.611

0.611

1.83

1.83

1.83

1.83

1.83

1.83

1.83

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

Page 9 of 24

4197000

PWS Name:	WANNACOMET WATER COMPANY					P	WS Class:	COM	□ NT	NC [] TNC [
MassDEP Location (LOC) ID#		N	lassDEP Location	n Name		San	nple Informa	tion	Date Colle	ected	c	Collected By	
	WEL	L 06G				☐ (M)ulti ☑ (S)ingl		R)aw F)inished	06/15/2	21		RW	
Routine or			Resubmitted or			-	If Resubmitted Report, list below:						
Special Sample			mation Report		` ,	Reason for R	.,				riginal Sample		
⊠ RS □ SS			ubmitted		<u> </u>	e Reanalys							
SAMPLE COMME	NTS - S	uch as, if a Ma	nifold/Multiple sar	nple, list the s	source(s) that w	ere on-line duri	ing sample co	ollection or if the	nis is a field	reagent b	olank		
II. ANALYTICA	AL LAI	BORATOR'	Y INFORMAT	ION:									
Primary Lab Ce	rt. #:	M-MA086	Primary	Lab Name	Alpha A	nalytical La	bs		Sub	contrac	ted?	(Y/N) Y	
Analysis Lab Ce	ert. #:	M-MA030	Analysis	Lab Name	: Alpha A	nalytical La	bs						
If Analysis Lab EPA, list certific			MassDEP or U	S.									
Lab Method	Dat	e Extracted	Date Analyzed	Dilution Factor			Lab Sample IDs#						
537.1		06/17/21	06/18/21	1	Primary La	b:	L2132674-05						
557.1		00/17/21	00/10/21		Subcontrac	ted Lab:		L	213267	4-05			
CAS#			REGULATED PF	AS CONTAIN	MINANTS		Result ¹ ng/L	Result ² Qualifier	MCL*	MD ng/		MRL ng/L	
1763-23-1	Perf	luorooctane S	Sulfonic Acid (PF	OS)			ND			0.61	11	1.83	
335-67-1	Perf	luorooctanoid	Acid (PFOA)				ND			0.61	11	1.83	
355-46-4	Perf	luorohexane	Sulfonic Acid (Pl	FHxS)			ND			0.61	11	1.83	
375-95-1	Perf	luorononanoi	c Acid (PFNA)				ND			0.61	11	1.83	
375-85-9	Perf	luorohepatan	oic Acid (PFHpA)			1.43	J		0.61	11	1.83	
335-76-2	Perf	luorodecanoi	c acid (PFDA)				ND			0.61	11	1.83	
			HxS, PFNA, Pf										
			MRL; do not in Qualifier in the r			as =			20				
3.00			INREGULATED F		<u> </u>	•			1	ļ			
375-73-5	Perf	luorobutane s	sulfonic acid (PF	BS)			ND			0.61	11	1.83	
307-55-1	Perf	luorododecar	noic acid (PFDoA	١)			ND			0.61	11	1.83	
307-24-4	Perf	luorohexanoi	c acid (PFHxA)				1.57	J		0.61	11	1.83	
376-06-7	Perf	luorotetradec	anoic acid (PFT/	A)			ND			0.61	11	1.83	
72629-94-8	Perf	luorotridecan	oic acid (PFTrDA	A)			ND			0.61	11	1.83	

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Perfluoroundecanoic acid (PFUnA)

N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)

N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)

Rev. 9/9/2020

2058-94-8

2991-50-6

2355-31-9

763051-92-9

756426-58-1

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 10 of 24

PWS	ID#:

4197000

Lab Sample ID#:

L2132674-05 Primary Lab: L2132674-05 Subcontracted Lab:

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				_		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	91	
¹³ C ₂ -PFDA	98	
d ₅ -NEtFOSAA	96	
¹³ C ₃ -HFPO-DA	101	

	Note: ¹³ C ₃ -HFPO-DA is not requ	uired for EPA M	1ethod 537 v1.1					
In addition to the S	In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.							
□ Laboratory ana	☑ Laboratory analytical report with QC attached (check one item below).							
	All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.							
☐ All asso	ociated sample and/or QC batch criteria no	ot met. See Lab	Analysis Comments below and narr	ative in attached report	i.			
Lab Analysis Com	nments: (include sample/method paramet	ters outside of	or affecting QC controls/limits and res	sult qualifiers)				
Result Qualifier	Qualifier Description							
J	The target analyte concentration is below the	he quantitation I	limit (RL), but above the Method Detect	ion Limit.				
Other Analysis Comments:								
* MCL or proposed M	1CL							
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W	rukens			
	formation contained herein is true, accurate ar extent of my knowledge.	าต	Date:	7/2/202				
If not submitting these results electronically, mail <u>TWO</u> copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.								
MassDEP REVIEW	V STATUS (Initial & Date)				_			
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered			

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

Page 11 of 24

	MET WATER	COMPAN	Υ		PV	VS Class:	0014		
1]	vo Ciass.	COM	□ NIN	C TNC
	MassDEP Location Name Samp			Sam	nple Informati	on	Date Colle	ected	Collected By
WELL 05G				☐ (M)ultip 図 (S)ingle)aw iinished	06/15/2	RW	
Original	, Resubmitted or				If Resubm	itted Repor	t, list below	:	
Confir	mation Report		(1) F	Reason for Re	esubmission		(2) Collec	ction Date	of Original Sample
○ Original	submitted Co	nfirmation	Resample	Reanalysi	is Report C	Correction			
NTS - Such as, if a Ma	anifold/Multiple sam	ple, list the s	source(s) that we	re on-line duri	ng sample col	lection or if th	nis is a field r	reagent bla	ınk
AL LABORATOR	Y INFORMATI	ION:							
	_		· Alpha Ar	alutical Lal	he		Sub	contracto	ed? (Y/N) Y
III. #.	o i i i i i i i i i i i i i i i i i i i	Lab Name	. Alpiia Al	iaiyticai Lai	<u> </u>		Jub	Contracte	su: (1/N) 1
ert. #: M-MA03	0 Analysis	Lab Name	e: Alpha Ar	nalytical Lal	bs				
is not certified by	MassDFP or U.	S							
		-							
Date Extracted	Date	B11 (1)	Lab Sample IDs#						
Date Extracted	Analyzed	Dilution Factor			La	ab Sample II	Os#		
	Analyzed	Factor	Primary Lab	:	Lá		os# 213267	4-06	
06/17/21			Primary Lab		La	L			
	Analyzed	Factor	•			L:	213267 213267	4-06	MDI
	Analyzed	Factor 1	Subcontract		Result ¹	L	213267		MRL ng/L
06/17/21	Analyzed 06/18/21	Factor 1 AS CONTAIN	Subcontract		Result ¹	L'A	213267 213267 MCL*	4-06 MDL	ng/L
06/17/21	Analyzed 06/18/21 REGULATED PF Sulfonic Acid (PF	Factor 1 AS CONTAIN	Subcontract		Result ¹ ng/L	L'A	213267 213267 MCL*	4-06 MDL ng/L	ng/L 1.84
06/17/21 Perfluorooctane Perfluorooctanoi	Analyzed 06/18/21 REGULATED PF Sulfonic Acid (PF	Factor 1 AS CONTAN	Subcontract		Result ¹ ng/L	L'A	213267 213267 MCL*	4-06 MDL ng/L	1.84 1.84
06/17/21 Perfluorooctane Perfluorooctanoi	Analyzed 06/18/21 REGULATED PF Sulfonic Acid (PF c Acid (PFOA) Sulfonic Acid (PF	Factor 1 AS CONTAN	Subcontract		Result ¹ ng/L 4.93 3.42	L'A	213267 213267 MCL*	4-06 MDL ng/L 0.614	1.84 1.84 1.84
Perfluorooctane Perfluorooctanoi Perfluorohexane Perfluorononano	Analyzed 06/18/21 REGULATED PF Sulfonic Acid (PF c Acid (PFOA) Sulfonic Acid (PF	AS CONTANOS)	Subcontract		Result ¹ ng/L 4.93 3.42 5.41	L'A	213267 213267 MCL*	MDL ng/L 0.614 0.614	1.84 1.84 1.84 1.84
Perfluorooctane Perfluorooctanoi Perfluorohexane Perfluorononano	Analyzed 06/18/21 REGULATED PF Sulfonic Acid (PF c Acid (PFOA) Sulfonic Acid (PFNA) noic Acid (PFHpA)	AS CONTANOS)	Subcontract		Result ¹ ng/L 4.93 3.42 5.41 ND	Result ² Qualifier	213267 213267 MCL*	MDL ng/L 0.614 0.614 0.614	1.84 1.84 1.84 1.84 1.84
Perfluorooctane Perfluorooctanoi Perfluorohexane Perfluorononano Perfluorohepatai	Analyzed 06/18/21 REGULATED PF Sulfonic Acid (PF c Acid (PFOA) Sulfonic Acid (PFNA) noic Acid (PFNA) ic acid (PFDA) FHXS, PFNA, PF e MRL; do not ince	AS CONTAN OS) HxS) HpA and Pclude estim	Subcontract ///////////////////////////////////	red Lab:	Result ¹ ng/L 4.93 3.42 5.41 ND 1.07	Result ² Qualifier	213267 213267 MCL*	MDL ng/L 0.614 0.614 0.614 0.614	1.84 1.84 1.84 1.84 1.84
Perfluorooctane Perfluorooctanoi Perfluorohexane Perfluorohexane Perfluorohexano Perfluorohexano Of PFOS, PFOA, P Sults at or above the cribed by a Result	Analyzed 06/18/21 REGULATED PF Sulfonic Acid (PF c Acid (PFOA) Sulfonic Acid (PFNA) noic Acid (PFNA) ic acid (PFDA) FHXS, PFNA, PF e MRL; do not ince	AS CONTAN OS) THXS) THPA and P clude estimext column	Subcontract MINANTS FDA; only incluated Results as	red Lab:	Result ¹ ng/L 4.93 3.42 5.41 ND 1.07	Result ² Qualifier	213267 213267 MCL* ng/L	MDL ng/L 0.614 0.614 0.614 0.614	1.84 1.84 1.84 1.84 1.84
<i>+</i>	Confination of Confine	AL LABORATORY INFORMAT ert. #: M-MA086 Primary ert. #: M-MA030 Analysis is not certified by MassDEP or U. cation authority:	Confirmation Report Original Resubmitted Confirmation NTS - Such as, if a Manifold/Multiple sample, list the s AL LABORATORY INFORMATION: Pert. #: M-MA086 Primary Lab Name Pert. #: M-MA030 Analysis Lab Name is not certified by MassDEP or U.S. cation authority:	Confirmation Report (1) F Original Resubmitted Confirmation Resample ENTS - Such as, if a Manifold/Multiple sample, list the source(s) that we AL LABORATORY INFORMATION: Ent. #: M-MA086 Primary Lab Name: Alpha Ar Sert. #: M-MA030 Analysis Lab Name: Alpha Ar is not certified by MassDEP or U.S.	Original, Resubmitted or Confirmation Report (1) Reason for Resubmited Confirmation Resubmited Reanalysis INTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during AL LABORATORY INFORMATION: Bert. #: M-MA086 Primary Lab Name: Alpha Analytical Laburert. #: M-MA030 Analysis Laburert. #: M-MA030	Original, Resubmitted or Confirmation Report (1) Reason for Resubmission Original Resubmitted Confirmation Resample Reanalysis Report Confirmation Resubmitted Report On Resample Reanalysis Report On Resubmitted Report On Resample Reanalysis Report On Resubmission Report On Resample Reanalysis Report On Resubmission Rep	Original, Resubmitted or Confirmation Report Original Resubmitted Confirmation Resubmission Original Resubmitted Confirmation Resample Reanalysis Report Correction NTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if the source. AL LABORATORY INFORMATION: Original, Resubmitted Report (1) Reason for Resubmission Resample Reanalysis Report Correction Al LABORATORY INFORMATION: Original, Resubmitted Report (1) Reason for Resubmission Aleanalysis Deport Correction Alpha Analysis Lab Name: Alpha Analytical Labs Is not certified by MassDEP or U.S. Cation authority:	Original, Resubmitted or Confirmation Report (1) Reason for Resubmission (2) Collection or if this is a field or Resubmitted Confirmation Resubmitted Report Correction Resubmitted Report Resubmitted Report, list below Resubmitted Report (2) Collection or if this is a field Resubmitted Report Resubmitted Resubmitted Report Resubmitted Repo	Original, Resubmitted or Confirmation Report Original Resubmitted Report

ND

0.846

ND

ND

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ND

ND

ND

ND

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1.84

1.84

1.84

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Perfluorododecanoic acid (PFDoA)

Perfluorotetradecanoic acid (PFTA)

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnA)

N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)

N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)

Perfluorohexanoic acid (PFHxA)

Rev. 9/9/2020

307-24-4

376-06-7

72629-94-8

2058-94-8

2355-31-9

763051-92-9

756426-58-1

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 12 of 24

PWS	ID#:

4197000

Lab Sample ID#:

Primary Lab: L2132674-06

Subcontracted Lab: L2132674-06

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	105	
¹³ C ₂ -PFDA	108	
d ₅ -NEtFOSAA	101	
¹³ C ₃ -HFPO-DA	117	

	Note: ¹³ C ₃ -HFPO-DA is not requ	uired for EPA M	lethod 537 v1.1				
In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.							
□ Laboratory ana	☑ Laboratory analytical report with QC attached (check one item below).						
All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.							
☐ All ass	ociated sample and/or QC batch criteria no	ot met. See Lab	Analysis Comments below and narr	ative in attached report	t.		
Lab Analysis Com	nments: (include sample/method paramet	ters outside of	or affecting QC controls/limits and res	sult qualifiers)			
Result Qualifier	Qualifier Description						
J	The target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit.						
					_		
Other Analysis Comments:							
* MCL or proposed M	ICL						
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W	cukons		
	iormation contained herein is true, accurate an extent of my knowledge.	na	Date:	7/2/202	21		
If not submitting these results electronically, mail <u>TWO</u> copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.							
MassDEP REVIEW	/ STATUS (Initial & Date)	5 .			Пиото		
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered		

Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 13 of 24

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form										
PWS ID #:	4197000 City / Town:					N/	ANTUCKET			
PWS Name:	WANNACO	MET WATER (COMPAN	Υ			PWS Class:	COM N	NC TNC	
MassDEP Location (LOC) ID#	MassDEP Location Name Sam			Sample Information Date Collected C			Collected	d By		
10008	STATE FOREST	03G FB			☐ (M)ulti 図 (S)ing		☐ (R)aw ☑ (F)inished	06/15/21	RW	
Routine or		Resubmitted or			-	lf	f Resubmitted Repor	t, list below:		
Special Sample	Confirm	nation Report		(1) R	leason for R	esub	omission	(2) Collection Da	te of Original S	Sample
⊠RS □SS	□ Original □ Res	ubmitted 🗌 Cor	nfirmation	Resample	Reanalys	is 🗌	Report Correction			
SAMPLE COMME	NTS - Such as, if a Mar	nifold/Multiple sam	ple, list the s	ource(s) that wer	e on-line dur	ing sa	ample collection or if t	his is a field reagent	blank	
II. ANALYTICA	AL LABORATORY	/ INFORMATI	ON:							
Primary Lab Ce	rt. #: M-MA086	Primary I	Lab Name:	Alpha An	alytical La	bs		Subcontra	cted? (Y/N)	Υ
Analysis Lab Co	ert. #: M-MA030	Analysis	Lab Name	: Alpha An	alytical La	bs				
•	is not certified by Neation authority:	MassDEP or U.S	S .							
Lab Method	Date Extracted	Date Analyzed	Dilution Factor				Lab Sample I	Ds#		
537.1	06/17/21	06/18/21	1	Primary Lab: L2132674-07 Subcontracted Lab: L2132674-07						
			1		I					

CAS#	REGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	ND			0.622	1.86
335-67-1	Perfluorooctanoic Acid (PFOA)	ND			0.622	1.86
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	ND			0.622	1.86
375-95-1	Perfluorononanoic Acid (PFNA)	ND			0.622	1.86
375-85-9	Perfluorohepatanoic Acid (PFHpA)	ND			0.622	1.86
335-76-2	Perfluorodecanoic acid (PFDA)	ND			0.622	1.86
Resu	FPOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include allts at or above the MRL; do not include estimated Results as ribed by a Result Qualifier in the next column)			20		
	UNREGULATED PFAS CONTAMINANTS		-			
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ND			0.622	1.86
307-55-1	Perfluorododecanoic acid (PFDoA)	ND			0.622	1.86
307-24-4	Perfluorohexanoic acid (PFHxA)	ND			0.622	1.86
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND			0.622	1.86
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND			0.622	1.86
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND			0.622	1.86
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND			0.622	1.86
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			0.622	1.86
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND			0.622	1.86
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	ND			0.622	1.86
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND			0.622	1.86
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND			0.622	1.86

¹ A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL. ² All qualifiers must be described under Lab Analysis Comments on page 2.

Rev. 9/9/2020



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS	ID#:

4197000

Lab Sample ID#:

Primary Lab:	L2132674-07
Subcontracted Lab:	L2132674-07

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	104	
¹³ C ₂ -PFDA	105	
d ₅ -NEtFOSAA	98	
¹³ C ₃ -HFPO-DA	117	

	Note: ¹³ C ₃ -HFPO-DA is not requ	uired for EPA M	lethod 537 v1.1				
In addition to the S	In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.						
□ Laboratory ana	alytical report with QC attached (check	one item belov	v).				
	☑ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.						
☐ All asse	ociated sample and/or QC batch criteria no	ot met. See Lab	Analysis Comments below and nar	rative in attached report	t.		
Lab Analysis Com	nments: (include sample/method paramet	ters outside of	or affecting QC controls/limits and re-	sult qualifiers)			
Result Qualifier	Qualifier Description						
J	The target analyte concentration is below the	he quantitation	imit (RL), but above the Method Detect	ion Limit.			
Other Analysis Comments:							
* MCL or proposed M	ICL						
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W	rukens		
	formation contained herein is true, accurate ar extent of my knowledge.	na	Date:	7/2/202			
If not submitting these results electronically, mail <u>TWO</u> copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.							
MassDEP REVIEW	V STATUS (Initial & Date)						
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered		

Massachusetts Department of Environmental Protection - Drinking Water Program PFAS

City / Town: NANTUCKET

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

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4197000

PWS Name:	WANNACOMET WATER COMPANY				PV	/S Class:	COM [C TNC			
MassDEP Location (LOC) ID#	MassDEP Location Name Sampl				ple Informati	on	Date Colle	cted	Collected By			
10009	N.PAST	URE 04G	FB			☐ (M)ultip ☑ (S)ingle		☐ (R)aw ☐ (F)inished 06/15/21			RW	
Routine or			Resubmitted or					itted Report				
Special Sample ☐ RS ☐ SS	M Onimin		nation Report	finns ation	• • •	Reason for Re			(2) Collec	tion Date o	of Original Sample	
			ubmitted Cor		Resample		· · · · · · · · · · · · · · · · · · ·		is is a field r	aggent bloo	m le	
SAMPLE COMME	N13 - Such :	as, ii a ivian	illoid/iviultiple sam	pie, iist trie s	ource(s) that wer	e on-line duni	ng sample col	lection of il tr	iis is a lielu i	agent blar	IK	
II. ANALYTICA	AL LABO	RATORY	'INFORMATI	ON:								
Primary Lab Ce	rt. #· [1	W-MA086	Primary I	Lab Name:	Alpha Ar	nalytical Lak	ns		Subo	contracte	ed? (Y/N) Y	
	···			Lub Humo.	7401474	iaiyiioai <u>L</u> ai					u. (./.t/)	
Analysis Lab Ce	ert. #:	M-MA030	Analysis	Lab Name	: Alpha Ar	nalytical Lak	os					
If Analysis Lab	is not cert	ified by N	lassDEP or U.S	S .								
EPA, list certific	ation auth	nority:										
Lab Mathad	Doto F		Date	Dilution				sh Camania II	_#			
Lab Method	Date Ex	ktracted	Analyzed	Factor			Là	ab Sample II				
537.1	06/1	7/21	06/18/21	1	Primary Lab				213267			
					Subcontract	ed Lab:	L2132674-08					
CAS#		ı	REGULATED PF	AS CONTAN	IINANTS		Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L	
1763-23-1	Perfluor	rooctane S	ulfonic Acid (PFC	OS)			ND			0.600	1.80	
335-67-1	Perfluor	rooctanoic	Acid (PFOA)				ND		-	0.600	1.80	
355-46-4	Perfluor	ohexane S	Sulfonic Acid (PF	HxS)			ND		-	0.600	1.80	
375-95-1	Perfluor	rononanoio	Acid (PFNA)				ND			0.600	1.80	
375-85-9	Perfluor	ohepatano	oic Acid (PFHpA)				ND		-	0.600	1.80	
335-76-2	Perfluor	rodecanoic	acid (PFDA)				ND		-	0.600	1.80	
Res	sults at or a	above the	HxS, PFNA, PF MRL; do not inc	lude estima	ated Results as				20			
des	cribed by a		ualifier in the ne			·						
075 70 5	Darflus				AMINANIS		ND			0.000	4.00	
375-73-5		Perfluorobutane sulfonic acid (PFBS)				ND		-	0.600	1.80		
307-55-1	Perfluorododecanoic acid (PFDoA)			ND		-	0.600	1.80				
307-24-4	` ,				ND		-	0.600	1.80			
	376-06-7 Perfluorotetradecanoic acid (PFTA)				ND		-	0.600	1.80			
72629-94-8	, ,				ND		-	0.600				
2058-94-8	, ,					ND		-	0.600	1.80		
2991-50-6	+		ctanesulfonamid		•		ND		-	0.600		
2355-31-9	+		octanesulfonam				ND		-	0.600	1.80	
763051-92-9	11-chlor	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)			ND	1		0.600	1.80			

ND

ND

0.600

0.600

0.600

1.80

1.80

1.80

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

Rev. 9/9/2020

756426-58-1

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS	ID#:

4197000

Lab Sample ID#:

 Primary Lab:
 L2132674-08

 Subcontracted Lab:
 L2132674-08

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				_		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	104	
¹³ C ₂ -PFDA	101	
d ₅ -NEtFOSAA	103	
¹³ C ₃ -HFPO-DA	108	

	Note: ¹³ C ₃ -HFPO-DA is not requ	uired for EPA M	lethod 537 v1.1				
In addition to the SI	UR above you must attach the results of the	ne ongoing QC	results as specified by the method fo	r the sample's extraction	on batch.		
□ Laboratory ana	☑ Laboratory analytical report with QC attached (check one item below).						
All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.							
☐ All asso	ociated sample and/or QC batch criteria no	ot met. See Lab	Analysis Comments below and narr	ative in attached report	i.		
Lab Analysis Com	ments: (include sample/method paramet	ters outside of o	or affecting QC controls/limits and res	ult qualifiers)			
Result Qualifier	Qualifier Description						
J	The target analyte concentration is below t	he quantitation I	imit (RL), but above the Method Detecti	on Limit.			
Other Analysis Comments:							
* MCL or proposed M	CL						
	es of law that I am the person authorized to fill o ormation contained herein is true, accurate ar		mary Lab Director Signature:	Joseph W.	rukons		
	ormation contained nerein is true, accurate ai extent of my knowledge.	na	Date:	7/2/202	21		
month in which	ese results electronically, mail <u>TWO</u> copie h you received this report <u>or</u> no later than ts COVID-19 state of emergency, in additi	10 days after th	ne end of the reporting period, whiche	ver is sooner. Note tha	nt during the		
MassDEP REVIEW	STATUS (Initial & Date)	_		_	_		
Accepted	Disapproved	Review Comments			□ WQTS Data Entered		

City / Town: NANTUCKET

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

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4197000

PWS Name:	WANNACOMET WATER COMPANY				PWS Class: COM NTNC TNC								
MassDEP Location (LOC) ID#	MassDEP Location Name Sam				nple Inforr	nation	ion Date Collecte		С	ollected	Ву		
10002	WELL	#2 02G FI	В			☐ (M)ultip 図 (S)ingl		(R)aw (F)inished	06/1	5/21		RW	
Routine or			Resubmitted or			-		ubmitted Repo	T		-		
Special Sample	N 0 = 1 = 1		nation Report	fina atian	. ,	Reason for R			(2) Col	lection Da	ate of Or	iginal S	ample
RS ☐ SS ☐ SAMPLE COMME			ubmitted Cor		Resample				this is a fig	ld roagont	blank		
SAWIFEE COMMINE	N13 - 3u	cii as, ii a iviai	mioid/Multiple Sam	pie, list trie s	bource(s) triat we	le on-line dun	ing sample	conection of it	נוווס וס מ וופ	iu reagerii	DIATIK		
II ANALVTICA	AL LAD	OBATOR	/ INFORMATI	ON.									
II. ANALYTICA		M-MA086			Almba Ar						ata d 2 (ovan F	Υ
Primary Lab Ce	ert. #:	IVI-IVI AU00	Primary	Lab Name	Alpha Al	nalytical La	DS		31	ubcontra	ctea? (1/N)	<u> </u>
Analysis Lab Co	ert. #:	M-MA030	Analysis	Lab Name	: Alpha Ar	nalytical La	bs						
If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:													
Lab Method	Date	Extracted	Date Analyzed	Dilution Factor				Lab Sample	IDs#	Os#			
537.1	04	6/17/21	06/18/21	1	Primary Lab	:	L2132674-09						
337.1		0/1//21	00/10/21	'	Subcontract	ed Lab:	L2132674-09						
CAS#			REGULATED PF	AS CONTAI	MINANTS		Result ng/L	1 Result ² Qualifier	MCL*		DL _I /L	MRI ng/L	
1763-23-1	Perflu	uorooctane S	Sulfonic Acid (PF	OS)			ND			0.6	643	1.92	2
335-67-1	Perflu	uorooctanoid	Acid (PFOA)				ND			0.6	643	1.92	2
355-46-4	Perflu	uorohexane	Sulfonic Acid (PF	HxS)			ND			0.6	643	1.92	2
375-95-1	Perflu	uorononanoi	c Acid (PFNA)				ND			0.6	643	1.92	2
375-85-9	Perflu	uorohepatan	oic Acid (PFHpA)				ND			0.6	643	1.92	2
335-76-2	Perflu	uorodecanoi	c acid (PFDA)				ND			0.6	643	1.92	2
Res	sults at o	or above the	HxS, PFNA, PF MRL; do not inc Qualifier in the no	clude estim	ated Results as				20				
		•	NREGULATED P	·									
375-73-5	Perflu	uorobutane s	sulfonic acid (PFE	BS)			ND			0.6	643	1.92	2
307-55-1	Perflu	Perfluorododecanoic acid (PFDoA)			ND			0.6	643	1.92	2		
307-24-4	307-24-4 Perfluorohexanoic acid (PFHxA)				ND			0.6	643	1.92	2		
376-06-7	376-06-7 Perfluorotetradecanoic acid (PFTA)				ND			0.6	643	1.92	2		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)				ND			0.6	643	1.92	2		
2058-94-8	Perflu	uoroundecan	oic acid (PFUnA))			ND			0.6	643	1.92	2
2991-50-6	N-eth	yl perfluoroc	octanesulfonamid	loacetic acid	d (NEtFOSAA)		ND			0.6	643	1.92	2
2355-31-9	N-me	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)				ND			0.6	643	1.92	2	

ND

ND

ND

0.643

0.643

0.643

0.643

1.92

1.92

1.92

1.92

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Rev. 9/9/2020

763051-92-9

756426-58-1

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS ID#:	4197000
- W 3 ID#.	419/000

Lab Sample ID#:

Primary Lab:	L2132674-09
Subcontracted Lab:	L2132674-09

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	100	
¹³ C ₂ -PFDA	106	
d ₅ -NEtFOSAA	95	
¹³ C ₃ -HFPO-DA	112	

	Note: 13C ₃ -HFPO-DA is not req	uired for EPA N	Method 537 v1.1		
In addition to the S	UR above you must attach the results of t	he ongoing QC	results as specified by the method for	or the sample's extraction	on batch.
□ Laboratory ana	alytical report with QC attached (check	one item below	w).		
	ociated QC criteria reported within control (SUR), Laboratory Fortified Blank (LFB),				RB), Surrogate
☐ All ass	ociated sample and/or QC batch criteria r	ot met. See Lal	o Analysis Comments below and narr	ative in attached report	i.
Lab Analysis Com	nments: (include sample/method parame	eters outside of	or affecting QC controls/limits and res	sult qualifiers)	
Result Qualifier	Qualifier Description				
J	The target analyte concentration is below	the quantitation	limit (RL), but above the Method Detecti	on Limit.	
Other Analysis Comments:					
* MCL or proposed M	ICL				
	es of law that I am the person authorized to fill formation contained herein is true, accurate a		mary Lab Director Signature:	Joseph W	rukons
	extent of my knowledge.	IIIG	Date:	7/2/202	
month in whic	nese results electronically, mail <u>TWO</u> copi h you received this report <u>or</u> no later than tts COVID-19 state of emergency, in addi	10 days after ti	he end of the reporting period, whiche	ever is sooner. Note tha	at during the
MassDEP REVIEW	/ STATUS (Initial & Date)				
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

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PWS ID #:		4197000 City / Town:					NANTUCKET					
PWS Name:		WANNACOMET WATER COMPANY			PWS Class: COM NTNC TNC							
MassDEP Location (LOC) ID#		MassDEP Location Name Samp			ple Informati	on	Date Colle	ected	Collected By			
10010	WE	ELLS 02G, 05	G, 06G FB			⊠ (M)ultip)aw inished	06/15/2	21	RW	
Routine or			Resubmitted or			-		itted Report	, list below	-		
Special Sample			mation Report		. ,	Reason for Re			(2) Collec	tion Date o	f Original Sample	
⊠ RS □ SS	<u> </u>		submitted		Resample							
SAMPLE COMM	ENIS.	- Such as, if a Ma	nifold/Multiple sam	ple, list the s	ource(s) that wei	re on-line durii	ng sample col	lection or if th	nis is a field r	eagent blan	K	
II. ANALYTIC	AL L	.ABORATOR	Y INFORMATI	ON:								
Primary Lab C	ert.#:	M-MA086	Primary	Lab Name:	Alpha Ar	alytical Lat	os		Sub	contracted	d? (Y/N) Y	
Analysis Lab	Cert. #	#: M-MA030	Analysis	Lab Name	: Alpha Ar	alytical Lat	os					
If Analysis La	b is no	ot certified by I	MassDEP or U.S	S .								
EPA, list certif												
Lat Made L		5.4. 5 44. 1	Date	Dilution					\			
Lab Method	'	Date Extracted	Analyzed	Factor			Lab Sample IDs#					
537.1		06/17/21	06/18/21	1	Primary Lab							
					Subcontract	ed Lab:	L2132674-10					
CAS#			REGULATED PF	AS CONTAM	IINANTS		Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L	
1763-23	-1 P	erfluorooctane S	Sulfonic Acid (PFC	OS)			ND			0.616	1.84	
335-67	-1 P	erfluorooctanoid	Acid (PFOA)				ND			0.616	1.84	
355-46	-4 P	erfluorohexane	Sulfonic Acid (PF	HxS)			ND			0.616	1.84	
375-95	-1 P	erfluorononanoi	ic Acid (PFNA)				ND			0.616	1.84	
375-85	-9 P	erfluorohepatan	oic Acid (PFHpA)				ND			0.616	1.84	
335-76	-2 P	erfluorodecanoi	c acid (PFDA)				ND			0.616	1.84	
` R	esults	at or above the	HxS, PFNA, PF MRL; do not inc Qualifier in the ne	lude estima	ated Results as				20			
		U	INREGULATED P	FAS CONTA	MINANTS							
375-73	-5 P	erfluorobutane s	sulfonic acid (PFE	S)			ND			0.616	1.84	
307-55	-1 P	Perfluorododecar	noic acid (PFDoA)				ND			0.616	1.84	
307-24	-4 P	Perfluorohexanoic acid (PFHxA)				ND			0.616	1.84		
376-06	-7 P	Perfluorotetradecanoic acid (PFTA)				ND			0.616	1.84		
72629-94	-8 P	erfluorotridecan	oic acid (PFTrDA))			ND			0.616	1.84	
2058-94	-8 P	erfluoroundecar	noic acid (PFUnA)				ND			0.616	1.84	
2991-50				1.18	J		0.616	1.84				
2355-31	-9 N	I-methyl perfluor	ooctanesulfonam	idoacetic ac	id (NMeFOSAA)	0.664	J		0.616	1.84	
763051-92	-9 1	1-chloroeicosafl	uoro-3-oxaundeca	ane-1-sulfon	nic acid (11CI-PI	3OUdS)	ND			0.616	1.84	
756426-58	_1 O	, ,			ND			0.616	1.8/			

ND

0.616

0.616

1.84

1.84

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Rev. 9/9/2020

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS	ID#:

4197000

Lab Sample ID#:

Primary Lab: L2132674-10

Subcontracted Lab: L2132674-10

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				_		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	103	
¹³ C ₂ -PFDA	101	
d ₅ -NEtFOSAA	99	
¹³ C ₃ -HFPO-DA	108	

	Note: ¹³ C ₃ -HFPO-DA is not requ	uired for EPA M	1ethod 537 v1.1			
In addition to the S	UR above you must attach the results of the	ne ongoing QC	results as specified by the method for	or the sample's extraction	on batch.	
□ Laboratory ana	alytical report with QC attached (check	one item belov	w).			
	ociated QC criteria reported within control (SUR), Laboratory Fortified Blank (LFB),				RB), Surrogate	
☐ All asse	ociated sample and/or QC batch criteria n	ot met. See Lab	Analysis Comments below and nar	ative in attached report	t.	
Lab Analysis Com	nments: (include sample/method parame	ters outside of	or affecting QC controls/limits and re-	sult qualifiers)		
Result Qualifier	Qualifier Description					
J	The target analyte concentration is below t	he quantitation	limit (RL), but above the Method Detect	ion Limit.		
Other Analysis Comments:						
* MCL or proposed M	ICL					
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W.	rukens	
	iormation contained herein is true, accurate an extent of my knowledge.	na	Date:	7/2/202		
If not submitting these results electronically, mail <u>TWO</u> copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.						
MassDEP REVIEW	/ STATUS (Initial & Date)					
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered	

Massachusetts Department of Environmental Protection - Drinking Water Program **PFAS**

City / Town: NANTUCKET

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

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4197000

PWS Name:	WANNACOMET WATER COMPANY					PV	VS Class:	COM		C TNC	; 🔲	
MassDEP Location (LOC) ID#		М	assDEP Location	n Name		Sam	ple Informat	ion	Date Colle	ected	Collected	I By
	WELL	.06G				☐ (M)ultip ☑ (S)ingle)aw)inished	06/15/	21	RW	
Routine or			Resubmitted or			-		nitted Repor				
Special Sample	-		nation Report	-	. ,	Reason for Re			(2) Collec	ction Date	of Original S	ample
⊠ RS □ SS			ubmitted Co		Resample							
SAMPLE COMME	:NTS - Su	ch as, if a Mar	nifold/Multiple sam	iple, list the s	source(s) that wer	re on-line durir	ng sample co	llection or if t	his is a field	reagent blai	nk	
II. ANALYTICA	AL LAB	ORATORY	/ INFORMATI	ON:								
Primary Lab Ce	ert. #:	M-MA086	Primary	Lab Name	: Alpha Ar	nalytical Lab	os		Sub	contracte	d? (Y/N)	Υ
Analysis Lab C	ert. #:	M-MA030	Analysis	Lab Name	e: Alpha Ar	nalytical Lak	os					
If Analysis Lab			MassDEP or U.	S.								
EPA, list certific	cation a	uthority:										
Lab Method	Date	Extracted	Date Analyzed	Dilution Factor			L	ab Sample I	Ds#			
507.4	0.	6/17/21	00/40/04	4	Primary Lab	:	L2132674-11					
537.1	U	6/1//21	06/18/21	1	Subcontract	ed Lab:	L2132674-11					
CAS#			REGULATED PF	AC CONTAR	AIN ANTO		Result ¹	Result ²	MCL*	MDL	MRI	L
CA3#			REGULATED FF.	AS CONTAI	MINANIS		ng/L	Qualifier	ng/L	ng/L	ng/l	L
1763-23-1	1 Perflu	uorooctane S	ulfonic Acid (PF	OS)			ND			0.620	1.86	6
335-67-1	1 Perflu	uorooctanoic	Acid (PFOA)				ND			0.620	1.86	6
355-46-4	4 Perflu	uorohexane S	Sulfonic Acid (PF	HxS)			ND			0.620	1.86	6
375-95-1	1 Perflu	uorononanoi	Acid (PFNA)				ND			0.620	1.86	6
375-85-9	9 Perflu	uorohepatano	oic Acid (PFHpA)				ND			0.620	1.86	6
335-76-2	2 Perflu	uorodecanoio	acid (PFDA)				ND			0.620	1.86	6
Re	sults at c	or above the	HxS, PFNA, PF MRL; do not ind Qualifier in the n	clude estim	ated Results as				20			
uci	3011DCG D		NREGULATED P						1			
375-73-5	5 Perflu	uorobutane s	ulfonic acid (PFE	3S)			ND	T		0.620	1.86	6
307-55-1	` '				ND			0.620	1.86			
307-24-4	, ,					ND			0.620	1.86		
376-06-7	` '						ļ				-	
	7 Perfluorotetradecanoic acid (PFTA)					ND			0.620	1.86	6	
72629-94-8			anoic acid (PFTA	<u> </u>			ND ND			0.620 0.620	1.86	

ND

ND

ND

ND

ND

0.620

0.620

0.620

0.620

0.620

0.620

1.86

1.86

1.86

1.86

1.86

1.86

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)

N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)

Rev. 9/9/2020

2991-50-6

2355-31-9

763051-92-9

756426-58-1

A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

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PWS	ID#:

4197000

Lab Sample ID#:

Primary Lab:	L2132674-11
Subcontracted Lab:	L2132674-11

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	98	
¹³ C ₂ -PFDA	105	
d ₅ -NEtFOSAA	111	
¹³ C ₃ -HFPO-DA	107	

	Note: ¹³ C ₃ -HFPO-DA is not requ	uired for EPA M	lethod 537 v1.1			
In addition to the S	UR above you must attach the results of the	ne ongoing QC	results as specified by the method fo	r the sample's extraction	on batch.	
□ Laboratory ana	alytical report with QC attached (check	one item belov	v).			
	ociated QC criteria reported within control (SUR), Laboratory Fortified Blank (LFB),				RB), Surrogate	
☐ All ass	ociated sample and/or QC batch criteria no	ot met. See Lab	Analysis Comments below and narr	ative in attached report	t.	
Lab Analysis Com	nments: (include sample/method paramet	ters outside of	or affecting QC controls/limits and res	sult qualifiers)		
Result Qualifier	Qualifier Description					
J	The target analyte concentration is below t	he quantitation I	imit (RL), but above the Method Detecti	on Limit.		
					_	
Other Analysis Comments:						
* MCL or proposed M	ICL					
	es of law that I am the person authorized to fill o		mary Lab Director Signature:	Joseph W	cukons	
	iormation contained herein is true, accurate an extent of my knowledge.	na	Date:	7/2/202	21	
If not submitting these results electronically, mail <u>TWO</u> copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.						
MassDEP REVIEW	/ STATUS (Initial & Date)	5 .			Пиото	
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered	

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

Page 23 of 24

WS ID #:	4197000 City / Town:				PWS Class: COM NTNC TNC						
PWS Name:	WANNACOMET WATER COMPANY										
MassDEP Location (LOC) ID#	MassDEP Location Name				San	Sample Information		Date Collected		Collected By	
,	WELL 05G FB				☐ (M)ulti 図 (S)ingl)aw)inished	06/15/2	21	RW	
Routine or	Original, Resubmitted or					If Resubmitted Report, list below:					
Special Sample	Confirmation Report			, ,	(1) Reason for Resubmission (2) Collection Date of Original				Original Sample		
	☑ Original ☐ Res			Resample							
SAMPLE COMMEN	TS - Such as, if a Mar	nifold/Multiple sam	ple, list the s	source(s) that we	re on-line dur	ing sample col	lection or if the	nis is a field i	reagent blank		
I. ANALYTICA	L LABORATOR	Y INFORMATI	ON:								
Primary Lab Cert. #: M-MA086 Primary Lab Name: Alpha Analytical Lal			bs		Sub	contracted	? (Y/N) Y				
		,			,						
Analysis Lab Ce	rt. #: M-MA030	Analysis	Lab Name	e: Alpha Ar	nalytical La	bs					
f Analysis Lab is	s not certified by I	MassDEP or U.	S.								
PA, list certifica			-								
		Doto	Dilution								
Lab Method	Date Extracted Date Dilution Analyzed Factor Lab Sample IDs#										
F07.4	00/40/04	4	Primary Lab:		L2132674-12						
537.1	06/17/21 06/18/21 1		Subcontract	ocontracted Lab: L2132674-12							
						Result ¹	Result ²	MCL*	MDL	MRL	
CAS#		REGULATED PF	AS CONTAI	MINANTS		ng/L	Qualifier	ng/L	ng/L	ng/L	
1763-23-1	Perfluorooctane S	Sulfonic Acid (PF	OS)			ND			0.629	1.88	
335-67-1		Perfluorooctane Sulfonic Acid (PFOS) Perfluorooctanoic Acid (PFOA)				ND			0.629	1.88	
355-46-4						ND		_	0.629	1.88	
375-95-1		Perfluorohexane Sulfonic Acid (PFHxS) Perfluorononanoic Acid (PFNA)				ND ND			0.629	1.88	
375-85-9		` '				ND ND			0.629		
	Perfluorohepatanoic Acid (PFHpA)							-		1.88	
335-76-2	Perfluorodecanoic acid (PFDA)			ND			0.629	1.88			
PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as					20						
desc	ribed by a Result C										
	U	INREGULATED P	FAS CONTA	AMINANTS					ı		
375-73-5	Perfluorobutane s	sulfonic acid (PFI	3S)			ND			0.629	1.88	
307-55-1	Perfluorododecanoic acid (PFDoA)					ND			0.629	1.88	
307-24-4	Perfluorohexanoic acid (PFHxA)			ND			0.629	1.88			
376-06-7	Perfluorotetradecanoic acid (PFTA)			ND			0.629	1.88			

ND

ND

ND

ND

ND

ND

ND

0.629

0.629

0.629

0.629

0.629

0.629

0.629

1.88

1.88

1.88

1.88

1.88

1.88

1.88

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Hexafluoropropylene oxide dimer acid (HFPO-DA)

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnA)

N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)

N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)

Rev. 9/9/2020

72629-94-8

2058-94-8

2355-31-9

763051-92-9

756426-58-1

¹ A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



PFAS

Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 24 of 24

PWS ID#:	4197000	Lab Sample ID#:	Primary Lab:	L2132674-12	
			Subcontracted Lab:	L2132674-12	

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	102	
¹³ C ₂ -PFDA	105	
d ₅ -NEtFOSAA	101	
¹³ C ₃ -HFPO-DA	112	

Note: ${}^{13}C_3$ -HFPO-DA is not required for EPA Method 537 v1.1

T							
In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.							
☐ Laboratory analytical report with QC attached (check one item below).							
☐ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.							
☐ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.							
Lab Analysis Com	ments: (include sample/method parame	ters outside of	or affecting QC controls/limits and res	ult qualifiers)			
Result Qualifier	Result Qualifier Qualifier Description						
J	The target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit.						
Other Analysis Comments:							
* MCL or proposed M	ICL						
I certify under penalties of law that I am the person authorized to fill out			nary Lab Director Signature:	Joseph W	rukons		
this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.		u	Date:	7/2/202			
If not submitting these results electronically, mail <u>TWO</u> copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report <u>or</u> no later than 10 days after the end of the reporting period, whichever is sconer. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.							
MassDEP REVIEW	/ STATUS (Initial & Date)						
Accepted	Disapproved	Review Comments			☐ WQTS Data Entered		
			I		l .		